

TABLE 2.2  
 OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN  
 The Dean Company

Scenario Timeframe: Future
Medium: Groundwater
Exposure Medium: Air

Exposure Point	CAS Number	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Background Value (2)	Screening Toxicity Value (3) (N/C)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
Water Vapors from Showerhead	117817	Bis(2-ethylhexyl)phthalate	2 J	5 J	ug/l	GW3D	4 / 12	3 - 4	5	NA	4.8 C	6	MCL	Y	ASL
	67663	Chloroform	0.6 J	9	ug/l	GW3D	3 / 12	1 - 1	9	NA	0.063 C	100	MCL	Y	ASL
	75150	Carbon Disulfide	0.3 J	4.5	ug/l	GW3D	3 / 12	1 - 1	4.5	NA	100 N	NA	NA	N	BSL
	76448	Heptachlor	2 J	33 J	ug/l	GW4D	6 / 12	0.01 - 0.01	33	NA	0.015 C	0.4	MCL	Y	ASL
	108883	Toluene	0.1 J	0.2 J	ug/l	GW3D	3 / 12	1 - 1	0.2	NA	75 N	1000	MCL	N	BSL
	7429905	Aluminum	134 J	1340	ug/l	GW3D	2 / 12	29 - 38.2	1340	NA	3700 N	50 - 200	SMCL	N	BSL
	7440393	Barium	65 J	489	ug/l	GW1D	6 / 12	0.2 - 1	489	NA	260 N	2000	MCL	Y	ASL
	7440417	Beryllium	0.2 K	1.5 K	ug/l	GW2D	3 / 12	0.1 - 1	1.5	NA	7.3 N	4	MCL	N	BSL
	7439921	Lead	6 J	35 J	ug/l	GW3D	4 / 12	0.1 - 1	35	NA	15	15	MCL	Y	ASL
	7439965	Manganese	1900	12500	ug/l	GW1D	6 / 12	0.3 - 1	12500	NA	73 N	50	SMCL	Y	ASL
	7440020	Nickel	0.9 J	1.5 J	ug/l	GW4D	3 / 12	0.9 - 7	1.5	NA	73 N	NA	NA	N	BSL

- (1) Maximum concentration used for screening.
- (2) To date, no background study has been completed.
- (3) All compounds were screened against the Risk-Based Concentration (RBC) Table, U.S. EPA Region III, May 8, 2001 for tap water (cancer benchmark = 1E-06; HQ = 0.1). Lead was screened against the action level of 15 ug/l.
- (4) Rationale Codes:  
 Selection Reason: Above Screening Level (ASL)  
 Deletion Reason: Below Screening Level (BSL)

Definitions: NA = Not Applicable  
 MCL = Maximum Contaminant Level  
 SMCL = Secondary Maximum Contaminant Level  
 J = Estimated Value  
 K = Estimated Value - Biased High  
 C = Carcinogen  
 N = Noncarcinogen